

Title (en)

Process for producing a polyarylene sulfide.

Title (de)

Verfahren zur Herstellung von Polyarylensulfid.

Title (fr)

Procédé pour préparer un polyarylène sulfure.

Publication

EP 0226909 A2 19870701 (EN)

Application

EP 86116909 A 19861204

Priority

JP 28301785 A 19851218

Abstract (en)

[origin: JPS62143932A] PURPOSE:To obtain polyphenylene sulfide with small content of heavy metals and outstanding electrical properties and thermal stability by polymerization between a polyhalogenated aromatic compound and reaction product derived from mixing alkali metal sulfide, water and organic polar solvent in specified proportion followed by heating and dehydration. CONSTITUTION:The objective polyphenylene sulfide can be obtained by polymerization, pref. at 200-270 deg.C for 0.5-20hr under stirring between (A) a reaction product derived from mixing (1) an alkali metal sulfide (e.g. lithium sulfide) (2) water and (3) an organic polar solvent (pref. N,N'-dimethyl acetamide) in a molar ratio (1):(2):(3)=1:10-20:1-10 followed by heating (pref. to 100-230 deg.C) and dehydration (pref. to a point of the molar ratio of the alkali metal sulfide to the water falling between 1 and 0.9-2.0) and (B) a polyhalogenated aromatic compound (e.g. p-dichlorobenzene). USE:Films, sheets, etc.

IPC 1-7

C08G 75/02

IPC 8 full level

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CPC (source: EP US)

C08G 75/0231 (2013.01 - EP US); **C08G 75/025** (2013.01 - EP US)

Cited by

EP0280274A3; EP0353716A3; EP0302218A1; US5155207A; EP0456349A3; EP0480685A3; EP0280271A3; US11274183B2; WO2019059593A1; US10731006B2; US10800884B2; US11203665B2

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